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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/120,030	07/21/1998	BETH P GOLDSTEIN	7732-022-27 1743		
759	90 02/20/2004	EXAMINER			
PIPER RUDNICK, LLP			BORIN, MICHAEL L		
1200 Nineteenth Washington, Do	,	ART UNIT	PAPER NUMBER		
		1631			
			DATE MAILED: 02/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application N	0	Applicant(s)				
Office Action Summary		09/120,030		GOLDSTEIN ET AL.				
		Examiner		Art Unit				
	•	Michael Borin		1631				
	The MAILING DATE of this communication a				ldress			
Period fo		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•				
THE - Extended after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repoper of the property o	i. 1.136(a). In no event, heply within the statutory d will apply and will expute, cause the application.	owever, may a reply be tim minimum of thirty (30) days ire SIX (6) MONTHS from to to become ABANDONEI	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).	ly. ommunication.			
Status								
1)	Responsive to communication(s) filed on 20	October 2003.						
,	a) This action is FINAL . 2b) ⊠ This action is non-final.							
,—	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims				·			
-		6 is/are pending i	n the application					
7)63	 Claim(s) 4,5,28,32,35,41-51,56-59 and 61-66 is/are pending in the application. 4a) Of the above claim(s) 28 and 35 is/are withdrawn from consideration. 							
5)□	5) Claim(s) is/are allowed.							
,	Claim(s) 4.5.32,41-51,56-59 and 61-66 is/are rejected.							
-	Claim(s) is/are objected to.							
-	B) Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
9)□	The specification is objected to by the Examir	ner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119							
•	Acknowledgment is made of a claim for foreig	an priority under :	35 II S.C. & 119(a)	-(d) or (f)				
-	☐ All b)☐ Some * c)☐ None of:	in priority dilder (70 0.0.0. § 110(a)	(4) 01 (1).				
u)	1. Certified copies of the priority documer	nts have been re	ceived					
	Certified copies of the priority documer			on No				
	3. Copies of the certified copies of the pri		- '		Stage			
	application from the International Bure	-			J			
* 5	See the attached detailed Office action for a lis	•		d.				
Attachmen	t(s)							
_	te of References Cited (PTO-892)	4) [Interview Summary	(PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	te	O 452)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date		Notice of Informal Pa	atent Application (PTC	J-102)			

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DETAILED ACTION

CONTINUED EXAMINATION UNDER 37 CFR 1.114 AFTER FINAL REJECTION

1. A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on

10/20/2003 has been entered.

Status of Claims

2. Pursuant to amendment filed 10/20/2003 claims 4, 5 are amended. Claims 61-

66 are added. Claims 4,5, 28,32,35,41-51,56-59,61-66 are pending. Claims 28,35

remain withdrawn from consideration as being drawn to a non-elected groups.

Applicant informed that claims 28, 35 would be canceled upon indication of allowable

subject matter.

Claim Rejections - 35 USC § 112, first paragraph.

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3. Claims 61,62,63,64 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. The claims introduce new matter not supported by specification as filed. Applicant directs to pages 8, 21-22; however said pages either address general information (p. 8) or discuss data related to treatment in rabbits (p. 20-21) whereas the instant claims are drawn to treatment of humans.

Claim Rejections - 35 USC § 103

4. Claims 4,5,32,41-51,56-59,61-66 remain rejected under 35 U.S.C. 103(a) as obvious over Zygmunt, and Goldberg and Stark, and further in view of Oldham. The rejection is maintained for the reasons of record as applied to claims 4,5,32,41-60, and further in view of the following.

In regard to Goldberg reference, applicant argues that the dosage effective in dogs was outside of the dosage range as instantly claimed. In particular, applicant points out that compared to the top limit of 30mg/kg/day in humans, the dosage described by Goldberg in dogs is as high as 31.6 or 35.4 mg/kg/day for dogs 5 and

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respectively, that demonstrated full improvement. The dosages of less than
 30mg/kg/day were initially effective but then was followed by relapse.

Examiner disagrees for several reasons. First, there is only a marginal difference between dosages described as effective on dogs in Goldberg and dosage range as instantly claimed. Compare, for example 31.6 or 35.4 mg/kg/day for dogs 5 and 4, respectively, with 30 mg/kg/day as claimed. The dosage is in the same order, and it would be prima facie to an artisan that dosage demonstrated to be effective in dogs should be fine-tuned for use in humans. Absent some teaching to the contrary (which is not offered by applicant), determination of particular ranges employed is within the skill of the ordinary worker as a part of the process of normal optimization. Second, as the instant claims are drawn to recombinant lysostaphin, and Oldham demonstrated that recombinant lysostaphin has antimicrobial activity similar to the natural product, it would be obvious, again, that the dosage of recombinant lysostaphin would be in the same range as for natural lysostaphin, but must be finetuned. Third, it is well known that actual activity of antibiotics is batch-dependent this is why activity of antibiotics is often expressed in units of activity, rather¹ than in absolute units like mg/kg/day as in the instant claims - and, again, it would be obvious that determination of particular ranges of recombinant lysostaphin for use in

¹See, for example Schuhardt et al. J. Bacteriol., vol. 88, 1964, p. 815, lines 4-8.

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humans would be within the skill of the ordinary worker as a part of the process of normal optimization. Finally, instant specification itself supports the obviousness to determine a particular dosage range as it states that "suitable dosages and regiments of lysostaphin may vary with the severity of infection and the sensitivity of the infecting organism" (see p. 10, lines 5-9).

In regard to the use of combined therapy, see discussion of the Zygmunt reference.

5. Claims 32,42,43,46,47,50,51,54,55 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Zygmunt, and Goldberg and Stark, and Oldham as applied above, and further in view of Dixon. The rejection is maintained for the reasons of record.

Conclusion.

6. No claims are allowed

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Borin whose telephone number is

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(571) 272-0713. Dr. Borin can normally be reached between the hours of 8:30 A.M. to 5:00 P.M. EST Monday to Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Woodward, can be reached on (571) 272-0722.

Any inquiry of a general nature or relating the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-0549.

MICHAEL BORIN, PH.D PRIMARY EXAMINER

February 13, 2004

mlb